



ENTERED OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/084,206

DATE: 03/12/2002  
TIME: 14:02:32

Input Set : A:\191D1C1.ST25.txt  
Output Set: N:\CRF3\03122002\J084206.raw

3 <110> APPLICANT: Li et al.  
5 <120> TITLE OF INVENTION: G-Protein Receptor HTNAD29  
7 <130> FILE REFERENCE: PF191D1C1  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/084,206  
C--> 9 <141> CURRENT FILING DATE: 2002-02-28  
9 <150> PRIOR APPLICATION NUMBER: US95/07288  
10 <151> PRIOR FILING DATE: 1995-06-06  
12 <150> PRIOR APPLICATION NUMBER: 08/468,534  
13 <151> PRIOR FILING DATE: 1995-06-06  
15 <150> PRIOR APPLICATION NUMBER: 09/399,095  
16 <151> PRIOR FILING DATE: 1999-09-20  
18 <160> NUMBER OF SEQ ID NOS: 9  
20 <170> SOFTWARE: PatentIn Version 3.1  
22 <210> SEQ ID NO: 1  
23 <211> LENGTH: 1753  
24 <212> TYPE: DNA  
25 <213> ORGANISM: Homo sapiens  
27 <220> FEATURE:  
28 <221> NAME/KEY: CDS  
29 <222> LOCATION: (523)..(1533)  
30 <223> OTHER INFORMATION:  
33 <400> SEQUENCE: 1  
34 ctgcacgaga ggcacagatt tatcaagctc ctcagtcac aaacacatca cgggaagaaa 60  
36 catggaagga aaggaatttt aaaaggaaat accaatctct gtgcaaaca agccttgtat 120  
38 attcatgttt gcaccaatct actgtgagat ttatgaagaa aaacaaattg cggacaactc 180  
40 tctatgtaca cttacaaatg cctcagttga tgcttgtggg ctgtttgtca gcgttctgtg 240  
42 ataatagaaca catggacttc tgtttattaa attcagttga cccctttagc caattgccag 300  
44 gagcctggat ttttacttcc aactgctgat atctgtgtaa aaattgatct acatccaccc 360  
46 tttaaaagca ttgatgaatt aattagaact ttagacaaca agaaaaattg aaaagaattc 420  
48 tcagtaaaag cgaattcgat gttcaaaaaca aactacaaag agacaagact tctctgttta 480  
50 ctttctaaga actaatataa ttgctacctt aaaaaggaaa aa atg aac agc aca 534  
51 Met Asn Ser Thr  
52 1  
54 tgt att gaa gaa cag cat gac ctg gat cac tat ttg ttt ccc att gtt 582  
55 Cys Ile Glu Glu Gln His Asp Leu Asp His Tyr Leu Phe Pro Ile Val  
56 5 10 15 20  
58 tac atc ttt gtg att ata gtc agc att cca gcc aat att gga tct ctg 630  
59 Tyr Ile Phe Val Ile Ile Val Ser Ile Pro Ala Asn Ile Gly Ser Leu  
60 25 30 35  
62 tgt gtg tct ttc ctg caa ccc aag aag gaa agt gaa cta gga att tac 678  
63 Cys Val Ser Phe Leu Gln Pro Lys Lys Glu Ser Glu Leu Gly Ile Tyr  
64 40 45 50  
66 ctc ttc agt ttg tca cta tca gat tta ctc tat gca tta act ctc cct 726

## RAW SEQUENCE LISTING

DATE: 03/12/2002

PATENT APPLICATION: US/10/084,206

TIME: 14:02:32

Input Set : A:\191D1C1.ST25.txt

Output Set: N:\CRF3\03122002\J084206.raw

```
67 Leu Phe Ser Leu Ser Leu Ser Asp Leu Leu Tyr Ala Leu Thr Leu Pro
68          55          60          65
70 tta tgg att gat tat act tgg aat aaa gac aac tgg act ttc tct cct      774
71 Leu Trp Ile Asp Tyr Thr Trp Asn Lys Asp Asn Trp Thr Phe Ser Pro
72      70          75          80
74 gcc ttg tgc aaa ggg agt gct ttt ctc atg tac atg aag ttt tac agc      822
75 Ala Leu Cys Lys Gly Ser Ala Phe Leu Met Tyr Met Lys Phe Tyr Ser
76 85          90          95          100
78 agc aca gca ttc ctc acc tgc att gcc gtt gat cgg tat ttg gct gtt      870
79 Ser Thr Ala Phe Leu Thr Cys Ile Ala Val Asp Arg Tyr Leu Ala Val
80          105          110          115
82 gtc tac cct ttg aag ttt ttt ttc cta agg aca aga aga att gca ctc      918
83 Val Tyr Pro Leu Lys Phe Phe Phe Leu Arg Thr Arg Arg Ile Ala Leu
84          120          125          130
86 atg gtc agc ctg tcc atc tgg ata ttg gaa acc atc ttc aat gct gtc      966
87 Met Val Ser Leu Ser Ile Trp Ile Leu Glu Thr Ile Phe Asn Ala Val
88      135          140          145
90 atg ttg tgg gaa gat gaa aca gtt gtt gaa tat tgc gat gcc gaa aag      1014
91 Met Leu Trp Glu Asp Glu Thr Val Val Glu Tyr Cys Asp Ala Glu Lys
92      150          155          160
94 tct aat ttt act tta tgc tat gac aaa tac cct tta gag aaa tgg caa      1062
95 Ser Asn Phe Thr Leu Cys Tyr Asp Lys Tyr Pro Leu Glu Lys Trp Gln
96 165          170          175          180
98 atc aac ctc aac ttg ttc agg acg tgt aca ggc tat gca ata cct ttg      1110
99 Ile Asn Leu Asn Leu Phe Arg Thr Cys Thr Gly Tyr Ala Ile Pro Leu
100          185          190          195
102 gtc acc atc ctg atc tgt aac cgg aaa gtc tac caa gct gtg cgg cac      1158
103 Val Thr Ile Leu Ile Cys Asn Arg Lys Val Tyr Gln Ala Val Arg His
104          200          205          210
106 aat aaa gcc acg gaa aac aag gaa aag aag aga atc ata aaa cta ctt      1206
107 Asn Lys Ala Thr Glu Asn Lys Glu Lys Lys Arg Ile Ile Lys Leu Leu
108      215          220          225
110 gtc agc atc aca gtt act ttt gtc tta tgc ttt act ccc ttt cat gtg      1254
111 Val Ser Ile Thr Val Thr Phe Val Leu Cys Phe Thr Pro Phe His Val
112      230          235          240
114 atg ttg ctg att cgc tgc att tta gag cat gct gtg aac ttc gaa gac      1302
115 Met Leu Leu Ile Arg Cys Ile Leu Glu His Ala Val Asn Phe Glu Asp
116 245          250          255          260
118 cac agc aat tct ggg aag cga act tac aca atg tat aga atc acg gtt      1350
119 His Ser Asn Ser Gly Lys Arg Thr Tyr Thr Met Tyr Arg Ile Thr Val
120          265          270          275
122 gca tta aca agt tta aat tgt gtt gct gat cca att ctg tac tgt ttt      1398
123 Ala Leu Thr Ser Leu Asn Cys Val Ala Asp Pro Ile Leu Tyr Cys Phe
124          280          285          290
126 gtt acc gaa aca gga aga tat gat atg tgg aat ata tta aaa ttc tgc      1446
127 Val Thr Glu Thr Gly Arg Tyr Asp Met Trp Asn Ile Leu Lys Phe Cys
128      295          300          305
130 act ggg agg tgt aat aca tca caa aga caa aga aaa cgc ata ctt tct      1494
131 Thr Gly Arg Cys Asn Thr Ser Gln Arg Gln Arg Lys Arg Ile Leu Ser
```

## RAW SEQUENCE LISTING

DATE: 03/12/2002

PATENT APPLICATION: US/10/084,206

TIME: 14:02:33

Input Set : A:\191D1C1.ST25.txt

Output Set: N:\CRF3\03122002\J084206.raw

```
132      310      315      320
134 gtg tct aca aaa gat act atg gaa tta gag gtc ctt gag tagaaccaag      1543
135 Val Ser Thr Lys Asp Thr Met Glu Leu Glu Val Leu Glu
136 325      330      335
138 gatgttttga agggaaggga agtttaagtt atgcattatt atatcatcaa gattacattt      1603
140 tgaagaggaa atctagcatg tgaggggact aagtgttctc agagtgatgt tttaatccag      1663
142 tccaataaaa atatcttaaa actgcattgt acagctccct cctgcggttt tattaatga      1723
144 tgtatattaa acaaagatca atattttctt      1753
147 <210> SEQ ID NO: 2
148 <211> LENGTH: 337
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 2
154 Met Asn Ser Thr Cys Ile Glu Glu Gln His Asp Leu Asp His Tyr Leu
155 1      5      10      15
158 Phe Pro Ile Val Tyr Ile Phe Val Ile Ile Val Ser Ile Pro Ala Asn
159      20      25      30
162 Ile Gly Ser Leu Cys Val Ser Phe Leu Gln Pro Lys Lys Glu Ser Glu
163      35      40      45
166 Leu Gly Ile Tyr Leu Phe Ser Leu Ser Leu Ser Asp Leu Leu Tyr Ala
167      50      55      60
170 Leu Thr Leu Pro Leu Trp Ile Asp Tyr Thr Trp Asn Lys Asp Asn Trp
171 65      70      75      80
174 Thr Phe Ser Pro Ala Leu Cys Lys Gly Ser Ala Phe Leu Met Tyr Met
175      85      90      95
178 Lys Phe Tyr Ser Thr Ala Phe Leu Thr Cys Ile Ala Val Asp Arg
179      100      105      110
182 Tyr Leu Ala Val Val Tyr Pro Leu Lys Phe Phe Phe Leu Arg Thr Arg
183      115      120      125
186 Arg Ile Ala Leu Met Val Ser Leu Ser Ile Trp Ile Leu Glu Thr Ile
187      130      135      140
190 Phe Asn Ala Val Met Leu Trp Glu Asp Glu Thr Val Val Glu Tyr Cys
191 145      150      155      160
194 Asp Ala Glu Lys Ser Asn Phe Thr Leu Cys Tyr Asp Lys Tyr Pro Leu
195      165      170      175
198 Glu Lys Trp Gln Ile Asn Leu Asn Leu Phe Arg Thr Cys Thr Gly Tyr
199      180      185      190
202 Ala Ile Pro Leu Val Thr Ile Leu Ile Cys Asn Arg Lys Val Tyr Gln
203      195      200      205
206 Ala Val Arg His Asn Lys Ala Thr Glu Asn Lys Glu Lys Lys Arg Ile
207      210      215      220
210 Ile Lys Leu Leu Val Ser Ile Thr Val Thr Phe Val Leu Cys Phe Thr
211 225      230      235      240
214 Pro Phe His Val Met Leu Leu Ile Arg Cys Ile Leu Glu His Ala Val
215      245      250      255
218 Asn Phe Glu Asp His Ser Asn Ser Gly Lys Arg Thr Tyr Thr Met Tyr
219      260      265      270
222 Arg Ile Thr Val Ala Leu Thr Ser Leu Asn Cys Val Ala Asp Pro Ile
223      275      280      285
```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,206

DATE: 03/12/2002

TIME: 14:02:33

Input Set : A:\191D1C1.ST25.txt

Output Set: N:\CRF3\03122002\J084206.raw

226 Leu Tyr Cys Phe Val Thr Glu Thr Gly Arg Tyr Asp Met Trp Asn Ile  
227 290 295 300  
230 Leu Lys Phe Cys Thr Gly Arg Cys Asn Thr Ser Gln Arg Gln Arg Lys  
231 305 310 315 320  
234 Arg Ile Leu Ser Val Ser Thr Lys Asp Thr Met Glu Leu Glu Val Leu  
235 325 330 335  
238 Glu  
242 <210> SEQ ID NO: 3  
243 <211> LENGTH: 327  
244 <212> TYPE: PRT  
245 <213> ORGANISM: Homo sapiens  
247 <400> SEQUENCE: 3  
249 Asp Ser Ser His Met Asp Ser Glu Phe Arg Tyr Thr Leu Phe Pro Ile  
250 1 5 10 15  
253 Val Tyr Ser Ile Ile Phe Val Leu Gly Val Ile Ala Asn Gly Tyr Val  
254 20 25 30  
257 Leu Trp Val Phe Ala Arg Leu Tyr Pro Cys Lys Lys Phe Asn Glu Ile  
258 35 40 45  
261 Lys Ile Phe Met Val Asn Leu Thr Met Ala Asp Met Leu Phe Leu Ile  
262 50 55 60  
265 Thr Leu Pro Leu Trp Ile Val Tyr Tyr Gln Asn Gln Gly Asn Trp Ile  
266 65 70 75 80  
269 Leu Pro Lys Phe Leu Cys Asn Val Ala Gly Cys Leu Phe Phe Ile Asn  
270 85 90 95  
273 Thr Tyr Cys Ser Val Ala Phe Leu Gly Val Ile Thr Tyr Asn Arg Phe  
274 100 105 110  
277 Gln Ala Val Thr Arg Pro Ile Lys Thr Ala Gln Ala Asn Thr Arg Lys  
278 115 120 125  
281 Arg Gly Ile Ser Leu Ser Leu Val Ile Trp Val Ala Ile Val Gly Ala  
282 130 135 140  
285 Ala Ser Tyr Phe Leu Ile Leu Asp Ser Thr Asn Thr Val Pro Asp Ser  
286 145 150 155 160  
289 Ala Gly Ser Gly Asn Val Thr Arg Cys Phe Glu His Tyr Glu Lys Gly  
290 165 170 175  
293 Ser Val Pro Val Leu Ile Ile His Ile Phe Ile Val Phe Ser Phe Phe  
294 180 185 190  
297 Leu Val Phe Leu Ile Ile Leu Phe Cys Asn Leu Val Ile Ile Arg Thr  
298 195 200 205  
301 Leu Leu Met Gln Pro Val Gln Gln Gln Arg Asn Ala Glu Val Thr Gly  
302 210 215 220  
305 Arg Ala Leu Trp Met Val Cys Thr Val Leu Ala Val Phe Ile Ile Cys  
306 225 230 235 240  
309 Phe Val Pro His His Val Val Gln Leu Pro Trp Thr Leu Ala Glu Leu  
310 245 250 255  
313 Gly Phe Gln Asp Ser Lys Phe His Gln Ala Ile Asn Asp Ala His Gln  
314 260 265 270  
317 Val Thr Leu Cys Leu Leu Ser Thr Asn Cys Val Leu Asp Pro Val Ile  
318 275 280 285  
321 Tyr Cys Phe Leu Thr Lys Lys Phe Arg Lys His Leu Thr Glu Lys Phe

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/084,206

DATE: 03/12/2002

TIME: 14:02:33

Input Set : A:\191D1C1.ST25.txt

Output Set: N:\CRF3\03122002\J084206.raw

```

322      290      295      300
325 Tyr Ser Met Arg Ser Ser Arg Lys Cys Ser Arg Ala Thr Thr Asp Thr
326 305      310      315      320
329 Val Thr Glu Val Val Val Pro
330      325
333 <210> SEQ ID NO: 4
334 <211> LENGTH: 29
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Contains an EcoRI restriction enzyme site
341 <400> SEQUENCE: 4
342 cgaattcctc catgaacagc acatgtatt 29
345 <210> SEQ ID NO: 5
346 <211> LENGTH: 29
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Contains complementary sequences to a HindIII site
353 <400> SEQUENCE: 5
354 cggaagcttc gtcaaggacc tctaattcc 29
357 <210> SEQ ID NO: 6
358 <211> LENGTH: 34
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: Contains a HindIII site
365 <400> SEQUENCE: 6
366 gtccaagctt gccacatga acagcacatg tatt 34
369 <210> SEQ ID NO: 7
370 <211> LENGTH: 61
371 <212> TYPE: DNA
372 <213> ORGANISM: Artificial sequence
374 <220> FEATURE:
375 <223> OTHER INFORMATION: Contains complementary sequences to an XhoI site,
376 translation stop codon, and an HA tag
378 <400> SEQUENCE: 7
379 ctagctcgag tcaagcgtag tctgggacgt cgtatgggta gcaaggacct ctaattccat 60
381 a 61
384 <210> SEQ ID NO: 8
385 <211> LENGTH: 30
386 <212> TYPE: DNA
387 <213> ORGANISM: Artificial sequence
389 <220> FEATURE:
390 <223> OTHER INFORMATION: Contains a BamHI restriction enzyme site followed by 4
nucleotides resembling an efficient signal for the initiation
391 of translation in eukaryotic cells
393 <400> SEQUENCE: 8
394 cgggatccct ccatgaacag cacatgtatt 30
397 <210> SEQ ID NO: 9

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/084,206

DATE: 03/12/2002

TIME: 14:02:34

Input Set : A:\191D1C1.ST25.txt

Output Set: N:\CRF3\03122002\J084206.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date